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SOME MOSSES FROM MONROE COUNTY, INDIANA

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The mosses of the following list were collected in Monroe County, Indiana, from 1910-1914. Most of them were collected in territory within a radius of five miles from Indiana University at Bloomington.

There is very little record of moss collecting through this region previous to the lists prepared by the writer together with Miss Mildred Nothnagel, for the Indiana Academy of Science, and published in the Proceedings for 1912 and 1913. Since the preparation of the latter of these, considerable additions have been made to the collection. The whole list is presented now as being of possible interest or value as a check-list for this locality. The list is not nearly complete, as only few sterile forms are included. But the removal of the collectors to other fields has made improbable the addition of new material in the near future.

During the summer of 1914 the whole collection was carefully reviewed, and specimens were sent to various bryologists for verification. The writer is under special obligation to Geo. B. Kaiser for the verification of old material and identification of new material.

Attention may be called to the following observations. Such rare-fruited forms as *Leucobryum glaucum* and *Plagiothecium deplanatum* have been found fruiting here. The rather rare *Orthotrichum Lescurii* or *O. Porteri* is found in great abundance wherever there are partly shaded limestone outcrops in this section. The rough country with narrow ravines, wooded or recently deforested, clay soil, and outcropping limestone, furnishes greatly varied conditions for moss growth. The rapid change in amount of available water resulting from a thin soil layer over stone, and the great temperature range, from 10° Fahr. to 100° Fahr., tend to foster the formation of peculiar xerophytic associations. The great differences in narrow areas, as in ravines with bushes and running water at the bottom and dry exposed limestone fifty feet up the side, tend to produce or bring out variant forms. In the BRYOLOGIST for November, 1914, the writer presented some notes on the effect of these radical conditions upon the distribution of particular species. To those interested in physiological forms, carefully collected material from this region would prove very interesting.

The use of the two species names of *Orthotrichum* above is due to the inability to get an exact determination of the material. Several specimens have been sent to different persons for determination, but there has been about an even split in opinions.

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In the list below, “*” indicates that only sterile plants have been found:

- Aphanorhegma serratum* Sulliv.
Aulacomnium heterostichum (Hedw.)
 B. & S.
Barbula unguiculata (Huds.) Hedw.
Bartramia pomiformis (L.) Hedw.
Brachythecium campestre B. & S.
B. oxycladon (Brid.) J. & S.
B. plumosum (Sw.) B. & S.
B. rivulare B. & S.*
B. salebrosum (Hoffm.) Br. & Sch.
B. Starkei (Brid.) B. & S.
Bryhnia graminicolor (Brid.) Grout.*
Bryum argenteum L.
B. caespiticium L.
B. capillare L.
B. intermedium Brid.
Buxbaumia aphylla L.
Campyllum chrysophyllum (Brid.)
 Bryhn.
C. hispidulum (Brid.) Mitt.
Catharinea undulata (L.) W. & M.
Ceratodon purpureus (L.) Brid.
Cirriphyllum Boscii (Schwaegr.)
 Grout.*
Climacium americanum Brid.*
Cratoneuron filicinum (L.) Roth.
Dicranella heteromalla (L.) Schimp.
D. heteromalla var. *orthocarpa* (Hedw.)
 E. G. B.
D. varia (Hedw.) Schimp.
Dicranum fulvum Hook.
D. scoparium (L.) Hedw.
Ditrichum pallidum (Schreb.) Hampe.
Drummondia clavellata Hook.
Entodon cladorrhizans (Hedw.) C. M.
E. seductrix (Hedw.) C. M.
Eurynchium hians (Hedw.) J. & S.
E. serrulatum (Hedw.) Kindb.
Fissidens cristatus Wils.
F. minutulus Sulliv.
F. taxifolius (L.) Hedw.
Forrstroemia trichomitria (Hedw.)
 Lindb.
F. trichomitria var. *immersa* (Sulliv.)
 Lindb.
Funaria flavicans Mx.
F. hygrometrica (L.) Sibth.
Grimmia apocarpa (L.) Hedw.
Hedwigia albicans (Web.) Lindb.
Hypnum curvifolium Hedw.
H. imponens Hedw.
H. molluscum Hedw.
Leptobryum pyriforme (L.) Wils.
Leucobryum glaucum (L.) Schimp.
Leucodon brachypus Brid.
L. julaceus (Hedw.) Sulliv.
Mniobryum albicans (Wahl.) Limpr.*
Mnium affine Rand.
M. affine ciliare (Grev.) C. M.
M. cuspidatum (L.) Leyss.
M. rostratum Schrad.*
Orthotrichum Lescurii Aust.
O. Porteri Aust.
O. Schimperii Hamm.
Philonotis fontana (L.) Brid.*
Physcomitrium turbinatum (Mx.) Brid.
Plagiothecium deplanatum (Sch.) Grout.
P. geophyllum Aust.
Platygyrium repens (Brid.) B. & S.
Pogonatum brevicaulis (Brid.) Beauv.
Pohlia nutans (Schreb.) Lindb.
Polytrichum commune L.
P. Ohioense R. & C.
P. piliferum Schreb.*
Pylaisia Schimperii R. & C.
Raphidostegium carolinianum (C. M.)
 J. & S.
R. carolinianum var. *admixtum* Sulliv.
Rhodobryum roseum (Weis.) Limp.*
Rhytidium rugosum (L.) Kindb.*
Thelia hirtella (Hedw.) Sulliv.
Thuidium delicatulum (L.) Mitt.
T. microphyllum (Sw.) Best.
T. pygmaeum Br. & Sch.
Tortella caespitosa (Schw.) Limp.
Weisia viridula (L.) Hedw.

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